## Technical data (limit values)

Model	AX204DR	AX304	AX504
Maximum load	220 g	310 g	510 g
Maximum load, fine range	81 g		
Readability	1 mg	0.1 mg	0.1 mg
Readability, fine range	0.1 mg		
Repeatability (sd) at full load 1)	0.6 mg	0.1 mg	0.1 mg
Repeatability (sd) (at gross load) 1)	0.05 mg (10 g)	0.07 mg (10 g)	0.07 mg (10 g)
Linearity	0.3 mg	0.3 mg	0.4 mg
Eccentric load deviation at 1/2 maximum capacity 2)	0.25 mg	0.5 mg	0.6 mg
Sensitivity offset 3)	3.0x10 <sup>-6</sup>	5.0x10 <sup>-6</sup>	5.0x10 <sup>-6</sup>
Sensitivity temperatur driff 4)	0.0001%/°C	0.0001%/°C	0.0001%/°C
Sensitivity stability 5)	0.0001%/a	0.0001%/a	0.0001%/a
Weighing time typical <sup>6)</sup>	4 s	4 s	4 s
Interface update rate	7 /s	7 /s	7 /s
Balance dimensions (WxDxH) (mm)	241x505x293	241x505x293	241x505x293
Control unit dimensions (WxDxH) (mm)	_		
Usable height of draft shield	240 mm	240 mm	240 mm
Weighing pan dimensions (WxD) (mm)	80 x 80	80 x 80	80 x 80

## Typical data for determination of the measurement uncertainty

0.4 mg + 5x10 <sup>-7</sup> • R <sub>gr</sub>	0.04 mg + 6x10 <sup>-8</sup> • R <sub>gr</sub>	0.04 mg + 6x10 <sup>-8</sup> • R <sub>gr</sub>
0.04 mg + 1.2x10 <sup>-7</sup> • R <sub>gr</sub>		
√1x10-11 • R <sub>nt</sub>	√8x10 <sup>-12</sup> • R <sub>nt</sub>	√8x10 <sup>-12</sup> • R <sub>nt</sub>
2.5x10 <sup>-7</sup> • R <sub>nt</sub>	2.5x10 <sup>-7</sup> • R <sub>nt</sub>	2x10 <sup>-7</sup> • R <sub>nt</sub>
6x10 <sup>-7</sup> • R <sub>nt</sub>	6x10 <sup>-7</sup> • R <sub>nt</sub>	8x10 <sup>-7</sup> • R <sub>nt</sub>
1200 mg + 1.5x10 <sup>-3</sup> • R <sub>gr</sub>	120 mg + 1.8x10 <sup>-4</sup> • R <sub>gr</sub>	120 mg + 1.8x10 <sup>-4</sup> • R <sub>gr</sub>
120 mg + 3.6x10 <sup>-4</sup> • R <sub>gr</sub>		
80 mg + 1x10 <sup>-4</sup> • R <sub>qr</sub>	8 mg + 1.2x10 <sup>-5</sup> • R <sub>gr</sub>	8 mg + 1.2x10 <sup>-5</sup> • R <sub>gr</sub>
8 mg + 2.4x10 <sup>-5</sup> • R <sub>gr</sub>	_	_
	0.04 mg + 1.2x10 <sup>-7</sup> $\bullet$ R <sub>gr</sub> $\sqrt{1x10^{-11}} \bullet$ R <sub>nt</sub> 2.5x10 <sup>-7</sup> $\bullet$ R <sub>nt</sub> 6x10 <sup>-7</sup> $\bullet$ R <sub>nt</sub> 1200 mg + 1.5x10 <sup>-3</sup> $\bullet$ R <sub>gr</sub> 120 mg + 3.6x10 <sup>-4</sup> $\bullet$ R <sub>gr</sub> 80 mg + 1x10 <sup>-4</sup> $\bullet$ R <sub>gr</sub>	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

- 1) Valid for compact ojects
- 2) According to OIML R76
- 3) After adjustment with built-in reference weight
- 4) In the temperature range 10...30 °C
- 5) Sensitivity driff/year after putting into operation for the first time, with the FACT self-calibration function activated
- 6) Includes sample handling and setting time
- 7) With DeltaRange models: Fine range starting at zero gross load
- sd = Standard deviation
- Rgr = Gross weight
- Rnt = Net weight (sample weight)
- a = Year (annum)
- The minimum weight can be improved by the following measures:
  - Selecting suitable weighing parameters
  - Choosing a better location
  - Using smaller taring containers
  - Using an inner draft shield (AX)

The information contained in this document has been carefully prepared and represents the most up-to-date status. Data shown as typical are reference values for calculation of the expected measurement uncertainty. The actual measurement performance may be affected negatively or positively by the place of use and/or the settings.